

PROJECT DESCRIPTION
GENERAL

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 26 (LIBERTY ROAD) AND OLD COURT ROAD IN BALTIMORE COUNTY.

INTERSECTION OPERATION

A SYSTEM CONTROLLER HOUSED IN A BASE MOUNTED CABINET HAS BEEN INSTALLED PRIOR TO THE RECONSTRUCTION OF THIS TRAFFIC SIGNAL BY BALTIMORE COUNTY FORCES AT THIS LOCATION. THE INTERSECTION WILL OPERATE IN A FULLY ACTUATED MODE USING 6 NEMA PHASES. THE LEFT TURN PHASES ALONG EAST AND WEST BOUND MD 26 SHALL OPERATE WITH EXCLUSIVE PERMISSIVE LEFT TURN PHASING AND THE SIDE STREETS SHALL OPERATE AS A SPLIT PHASE. AN ADVANCE PED PHASE SHALL ALSO BE ADDED TO THE PHASING FOR PEDESTRIANS TO CROSS MD 26 (LIBERTY ROAD). A CENTRAL CONTROL UNIT WILL BE ADDED TO THE EXISTING CABINET AND AUDIBLE PRESTRIAN SYSTEMS WILL BE ADDED TO ALL FOUR CORNERS OF THE INTERSECTION FOR HANICAP CROSSINGS.

SPECIAL NOTES

1. THE FOLLOWING CONTACT PERSONS FOR THIS PROJECT ARE AS FOLLOWS:

PROJECT CONTACTS:

MR. RANDALL SCOTT, ASSISTANT DISTRICT ENGINEER - TRAFFIC
PHONE: (410) 321-2781/2785
MR. DANIEL WITT, ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
PHONE: (410) 321-2821
MR. STEVE MARCISZEWSKI, ASSISTANT DISTRICT ENGINEER - MAINTENANCE
PHONE: (410) 321-2761
MS. SUENETTE POPE, - UTILITY ENGINEER
PHONE: (410) 321-2841
MR. RICHARD L. DAFF, SR. CHIEF TRAFFIC OPERATIONS DIVISION
PHONE: (410) 787-7630
MR. ROBERT SNYDER, ASSISTANT DIVISION CHIEF OF TOD - PHONE DROP
PHONE: (410) 787-7631

EQUIPMENT LIST

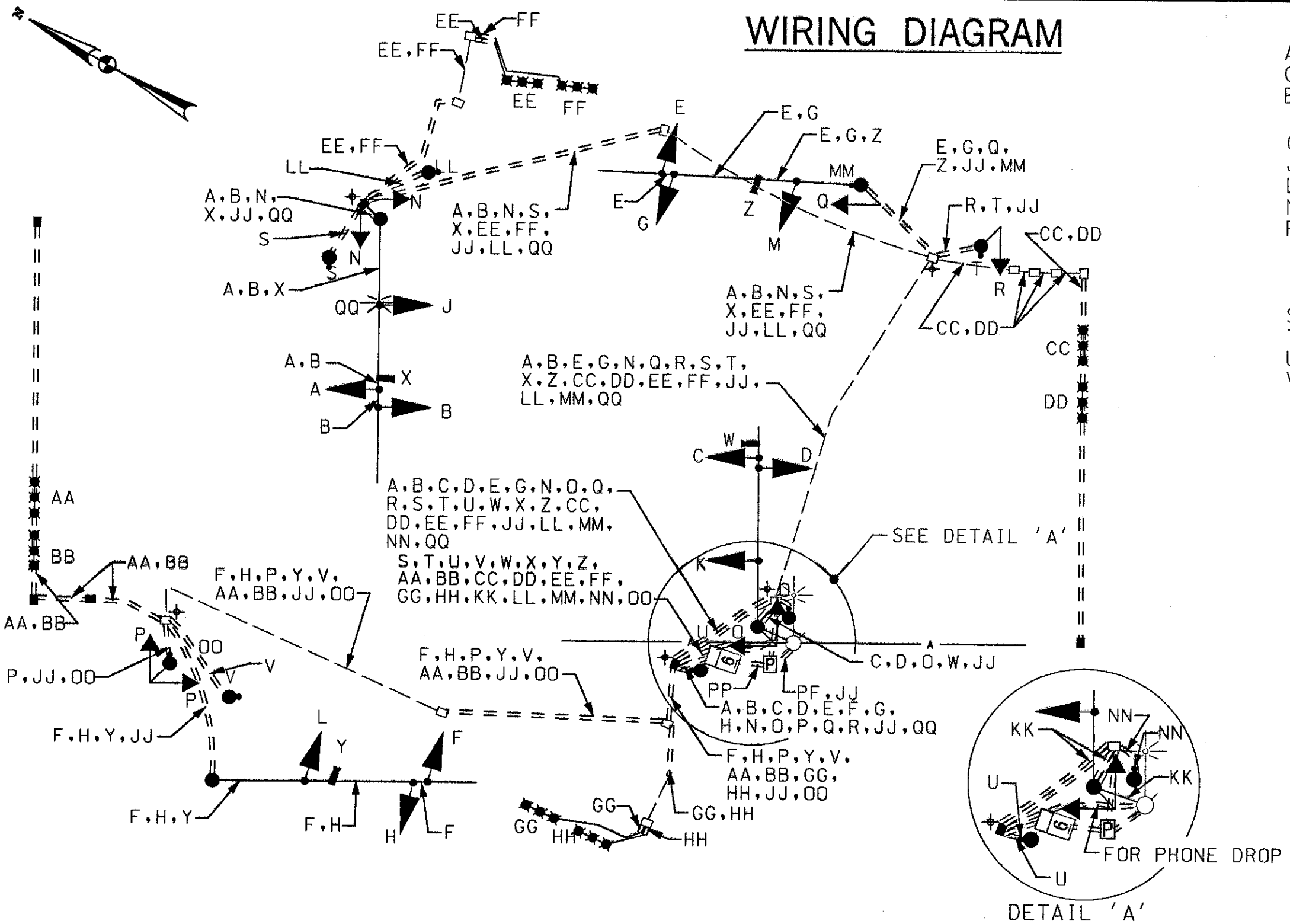
A. EQUIPMENT TO BE SUPPLIED BY THE ADMINISTRATION.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
9042	CONTROLLER ASC II WITH TELEMTRY	EA	1
9044	CONTROLLER CABINET, SIZE 6	EA	1
9086	VIDEO DETECTION INTERFACE EQUIPMENT: 1-4 CAMERAS	EA	1
9571	FLAT SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGNS CONSISTING OF: R10-4(1) (12"x9") POLE MOUNT R10-11b (24"x24") MAST ARM MOUNT R10-12 (36"x42") MAST ARM MOUNT D-3(2) (VAR.x16") MAST ARM MOUNT M95-1 (MOD.) (78"x40")	SF EA EA EA EA EA	89 8 2 2 2 2

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR.

ITEM NO.	DESCRIPTION	UNITS	QUANTITY
1001	MAINTENANCE OF TRAFFIC	EA	1
2002	TEST PIT EXCAVATION	CY	4
5005	12 INCH HEAT APPLIED WHITE PERM. PREFORMED THERMO. PAV. MARKS	LF	35
6005	4 INCH CONCRETE SIDEWALK	SF	700
8001	CONCRETE FOR SIGNAL FOUNDATIONS	CY	20
8002	12 INCH PEDESTRIAN SIGNAL HEAD SECTION - POLE MOUNT	EA	14
8005	2 WIRE NAVIGATOR CENTRAL CONTROL UNIT	EA	1
8010	2 WIRE NAVIGATOR AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON STATION AND SIGNS	EA	8
8013	CONTROL CABLE, 100 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8014	CONTROL CABLE, 200 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	1
8015	CONTROL CABLE, 300 FOOT VIDEO DETECTION CAMERA TO CONTROLLER	EA	2
8019	INSTALL BREAKAWAY PEDESTAL POLE ANY SIZE	EA	6
8023	MAST ARM POLE (15 FT. T) & 50 FOOT MAST ARM	EA	2
8029	REMOVE AND DISPOSE MATERIALS & EQUIPMENT PER ASSIGNMENT	LS	1
8040	DETECTABLE WARNING SURFACE (SURFACE APPLIED)	SF	50
8044	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE	LF	585
8047	WEATHER HEAD 3 INCH	EA	1
8051	2 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	10
8052	3 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	600
8053	4 INCH SCHED. 80 PVC CONDUIT-TRENCHED	LF	35
8056	4 INCH SCHED. 80 PVC CONDUIT-SLOTTED	LF	115
8057	1 INCH LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR SLEEVE	LF	10
8058	METERED SERVICE PEDESTAL	EA	1
8061	CABLE 1-CONDUCTOR, NO. 4 AWG-THHN/THWN	EA	135
8063	MICROLOOP PROBE, 500 FOOT LEAD IN CABLE	LF	4
8065	NONINVASIVE DETECTOR, 500 FOOT LEAD IN CABLE	EA	4
8067	FURNISH AND INSTALL ELECTRICAL HANDHOLE	EA	6
8070	INSTALL OVERHEAD SIGN	SF	89
8071	VIDEO DETECTION CAMERA	EA	4
8075	STEEL POLE WITH A SINGLE 50 FOOT MAST ARM	EA	2
8084	250 WATT HIGH PRESSURE SODIUM LAMP AND LUMINAIRE	EA	1
8091	GROUND ROD - 3/4 INCH DIA. x 10 FOOT LENGTH	EA	5
8093	12 INCH VEHICULAR TRAFFIC SIGNAL HEAD SECTION	EA	48
8096	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE	EA	1
8099	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 14 AWG)	LF	1290
8100	ELECTRICAL CABLE - 3 CONDUCTOR (NO. 14 AWG)	LF	300
8101	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)	LF	1135
8102	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)	LF	1315
8103	ELECTRICAL CABLE - 2 CONDUCTOR (NO. 12 AWG)	LF	325
8105	SAW CUT FOR SIGNAL - LOOP DETECTOR	LF	110
8107	15 FOOT LIGHTING ARM ON SIGNAL STRUCTURE	EA	1

WIRING DIAGRAM



PHASE CHART

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
PHASE 1 AND 5	←GR	←GR	R	←GR	←GR	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
1 AND 5 CHANGE TO 1 AND 6, 2 AND 5, OR 2 AND 6																				
PHASE 1 AND 6	←GG	←GG	G	R	R	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
1 AND 6 CHANGE	←YG	←YG	G	Y	Y	R	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 AND 5	R	R	R	←GG	←GG	G	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
2 AND 5 CHANGE	R	R	R	←YG	←YG	G	R	R	R	R	R	R	DW	WK	WK	DW	DW	DW	DW	DW
PHASE 2 AND 6	G	G	G	G	G	G	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
2 AND 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 2 AND 6 ALT	G	G	G	G	G	G	R	R	R	R	R	R	WK	WK	WK	WK	DW	DW	DW	DW
PED CLEARANCE	G	G	G	G	G	G	R	R	R	R	R	R	FLOW	FLOW	FLOW	FLOW	DW	DW	DW	DW
2 AND 6 ALT CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 3	R	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
3 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4	R	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	DW	DW	DW
4 CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
ADV PED PHASE 3 ALT AND 4 ALT	R	R	R	R	R	R	R	R	R	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PHASE 3 ALT	R	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	DW	DW	WK	WK	WK	WK
PED CLEARANCE	R	R	R	R	R	R	←G	←G	G	R	R	R	DW	DW	DW	DW	FLOW	DW	DW	FLOW
3 ALT CHANGE	R	R	R	R	R	R	Y	Y	Y	R	R	R	DW	DW	DW	DW	DW	DW	DW	DW
PHASE 4 ALT	R	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	WK	WK	DW
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	←G	←G	G	DW	DW	DW	DW	FLOW	DW	FLOW
4 ALT CHANGE	R	R	R	R	R	R	R	R	R	R	Y	Y	Y	DW	DW	DW	DW	DW	DW	DW
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	DARK	DARK	DARK	DARK	DARK	DARK	DARK	DARK



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 26 (LIBERTY ROAD) AT
OLD COURT ROAD

GENERAL INFORMATION PLAN

SCALE N.T.S. DATE 05/01/2005 CONTRACT NO. AT17175185

DESIGNED BY S. SMITH COUNTY BALTIMORE
DRAWN BY L. YEH LOGMILE 03002606.29
CHECKED BY S. RENZI T.I.M.S. NO. G-336
F.A.P. NO. N/A TOD NO. N/A

DRAWING NO. TS-839H

SHEET NO. 2 OF 2